

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2004/000019

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A63B 57/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6428430 B1 (C.M. CHONG), 6 August 2002 (06.08.2002), figure 9, abstract --	1-9
A	US 6413174 B1 (D.M. ROBERTS), 2 July 2002 (02.07.2002), figure 1, abstract --	1-9
A	US 5449169 A (C.R. HARDIN ET AL), 12 Sept 1995 (12.09.1995), figure 3, abstract --	1-9
A	US 4955609 A (A.D. KASSEN), 11 Sept 1990 (11.09.1990), figures 2,3, abstract --	1-9

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified).

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

6 February 2004

Date of mailing of the international search report

02-04-2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Björn Lindkvist / MRO  
Telephone No. +46 8 782 25 00

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000019

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SE 463015 B (L.R. MELLIN), 1 October 1990 (01.10.1990), figures 1,2, abstract</p> <p style="text-align: center;">-- -----</p>	1-9

# INTERNATIONAL SEARCH REPORT

Information on patent family members

24/12/2003

International application No.

PCT/SE 2004/000019

US	6428430	B1	06/08/2002	NONE		
US	6413174	B1	02/07/2002	NONE		
US	5449169	A	12/09/1995	NONE		
US	4955609	A	11/09/1990	NONE		
SE	463015	B	01/10/1990	AT	96265 T	15/11/1993
				DE	68910128 T	05/05/1994
				KR	138992 B	15/06/1998
				SE	8900397 A	07/08/1990